

Title (en)

Coil ignition method and device with additional discharges for diagnostics

Title (de)

Verfahren und Vorrichtung einer Spulenzündung mit zusätzlichen Entladungen zur Diagnose

Title (fr)

Procédé et dispositif d'allumage à bobine avec des décharges additionnelles pour diagnostics

Publication

**EP 0654604 B1 19980729 (FR)**

Application

**EP 94402617 A 19941117**

Priority

FR 9313944 A 19931122

Abstract (en)

[origin: EP0654604A1] The electronic ignition method and device of the invention ensure, between two periods of charging of the primary (13), the passage of a measurement current in the primary (13) for at least one diagnostic period defined by the computer (16). The rate of increase of current in the primary (13) is determined and discriminated by comparison with a threshold in order to deduce information on the presence and/or quality of a spark to the spark plug (10) connected to the secondary (12) of the ignition coil (11). The primary current is measured at the terminals of a shunt (15), and the measurements transmitted to the comparator-type detector (18) delivering signals about the presence of a spark to the computer (16), which controls the make-and-break switch (14) via an interface amplifier (17). Application to diagnosing ignition of controlled-ignition internal combustion engines. <IMAGE>

IPC 1-7

**F02P 17/12**

IPC 8 full level

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CPC (source: EP)

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Cited by

FR2820465A1; EP0848161A3; US6155241A; EP0747595A3; CN107178454A; GB2329971A; GB2329971B; EP0752580A3; US5814994A; EP3306075A1; CN107917032A; WO9853198A1; US10590903B2; EP0740072B1

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